

**at1121exam\_practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v9)**

- If you are looking for a practice exam that you can hand in for credit:

<https://chadworley.github.io/algtwo2026/u04/1121/at1121exam/at1121exam.html>

**Question 1**

Simplify the radical expressions.

$$\sqrt{98}$$

$$\sqrt{8}$$

$$\sqrt{63}$$

**Question 2**

Find all solutions to the equation below:

$$\frac{(x+4)^2}{4} + 7 = 23$$

**Question 3**

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 10x = 39$$

**Question 4**

A quadratic polynomial function is shown below in standard form.

$$y = 5x^2 + 40x + 73$$

Express the function in **vertex form** and identify the **location** of the vertex.